

OCT 31 2013

(Use as many sheets as necessary)

Complete if Known

Application Number	10/666998
Filing Date	September 19, 2003
First Named Inventor	Mark Aaron Behlke
Group Art Unit	Not assigned
Examiner Name	Not assigned
Attorney Docket Number	PA2003-4

[illegible][illegible]

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
/MS/	CA	PUSKAS et al., Diamino-Antraquinone: A New Intercalating Agent. Synthesis and Linking to Oligodeoxynucleotide, Nucleosides & Nucleotides, 1995, 967-968, 14(3-5)		
	CB	MAY et al., A Novel Dark Quencher for Oligonucleotide Probes: Synthesis and Applications, poster presentation from NILES 2002 IBC Oligonucleotide and Peptide Technology Conference, May 6-8, Las Vegas, NV	No	Year
/MS/	CC	Easy Q&Q PCR, http://www.eurogentec.be/code/en/product_easy_qq.htm , visited 05-09-2002, 4 pages		

/Mark Staples/

01/03/2008

- * A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
- + An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet

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of

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Application Number	10/666998
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Filing Date	September 19, 2003
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First Named Inventor	Andrei Laikhter
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Group Art Unit	1743
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Examiner Name	Not assigned
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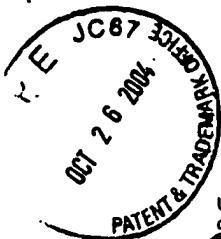
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PTO/SB/08A (10-01)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/666,998
		Filing Date	9/17/03
		First Named Inventor	Schaadt
		Art Unit	1765 -- 1637
		Examiner Name	Not Yet Assigned Mark Staples
Sheet	1	of	6
		Attorney Docket Number	P117-US

U.S. PATENT DOCUMENTS					
Examiner Initials [*]	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/MS/		US- 3,511,727	05-12-1970	Hays, R.G.	
		US- 4,190,488	02-26-1980	Winters, H.F.	
		US- 4,310,380	12-12-1982	Flamm et al.	
		US- 4,498,953	02-12-1985	Cook et al.	
		US- 6,051,503	04-18-2000	Bhardwai, J.K.	
		US- 6,436,229	08-20-2002	Tai et al.	
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		US- 6,355,181 B1	03-12-2002	McQuarrie, A.D.	
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/MS/		US- 2003/0166342 A1	09/04/03	Chinn, et al.	

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Examiner Initials [*]	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
/MS/		EP-0704884-A2	04-03-1996	Mehta, J.		
		EP-0822582-A2	02-04-1998	Bhardwai, J.K.		
		EP-0822584-A2	04-04-1998	Bhardwai, J.K.		
		WO-99/49506	09-30-1999	McQuarrie, A.D.		
		EP-0878824-A2	11-18-1998	McQuarrie et al.		
/MS/		EP-0878824-A3	01-19-2000	McQuarrie et al.		
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		JP-1985/60057938-A	04-03-1985	Katsumi et al.		
/MS/		WO-98/32163	07-23-1998	Tai et al.		

Not in
English
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Examiner Signature	/Mark Staples/	Date Considered	01/03/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/666,998	
			Filing Date	9/17/03	
			First Named Inventor	Schaadt	
			Art Unit	1765 - - 1637	
			Examiner Name	NorYorAssisted - Mark Staples	
Sheet	2	of	6	Attorney Docket Number	P117-US

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/MS/		US- 6,409,876 B1	06-25-2002	McQuarrie, et al.	
		US- 6,396,619 B1	05-28-2002	Huibers, et al.	
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/MS/		US- 2002/0195423	12/26/02	Patel, et al.	
/MS/		US- 2004/0035821	2/26/04	Doan, et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		JP-1997/09251981-A	09-22-1997	Kazuaki et al.	
		JP-1998/10313128-A	11-24-1998	Hanmin et al.	
		JP-1998/10317109-A	12-02-1998	McQuarrie et al.	
		JP-1986/61187238-A	08-20-1986	Nobuo et al.	
		JP-1986/61270830-A	12-01-1986	Toru, T.	
		JP-1987/62071217-A	04-01-1987	Toru et al.	
		JP-1988/63155713-A	06-28-1988	Tadashi, F.	
		JP-1986/61083732-A	03-17-1986	Arata et al.	
		JP-1986/61134009-A	06-27-1986	Shinji et al.	
		JP-1986/61181131-A	08-13-1986	Shinji et al.	

Examiner Signature	/Mark Staples/	Date Considered	01/03/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/666.998
		Filing Date	9/17/03
		First Named Inventor	Schaadt
		Art Unit	1765
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	P117-US
Sheet	3	of	6

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		JP-1989/01208834-A	08-22-1989	Nobuo et al.	
		JP-1989/10217921-A	08-31-1989	Tsuneo et al.	
		JP-1990/02250723-A	10-08-1990	Susumu et al.	
		JP-1991/03072921-A	01-21-1991	Nobuo et al.	
		JP-1992/04096222-A	03-27-1992	Atsuyuki, A.	
		JP-1993/07029823-A	01-31-1995	Hiroshi, T.	
		No English Translation provided			

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/666,998</td> </tr> <tr> <td>Filing Date</td> <td>9/17/03</td> </tr> <tr> <td>First Named Inventor</td> <td>Schaadt</td> </tr> <tr> <td>Group Art Unit</td> <td>1765 -- 1637</td> </tr> <tr> <td>Examiner Name</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>P117-US</td> </tr> </table>		Application Number	10/666,998	Filing Date	9/17/03	First Named Inventor	Schaadt	Group Art Unit	1765 -- 1637	Examiner Name	Not Yet Assigned	Attorney Docket Number	P117-US
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Sheet	4	of	6													

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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/MS/		ALIEV et al., "Development of Si(100) Surface Roughness at the Initial Stage of Etching in F2 and XeF2 Gases Ellipsometric Study", Surface Science 442 (1999), pp. 206-214.	
/MS/		GLIDEMEISTER, J.M., "Xenon Difluoride Etching System" (Nov. 17, 1997).	
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/MS/		HOULE, F.A., "Dynamics of SiF4 Desorption During Etching of Silicon by XeF2", IBM Almaden Research Center (April 15, 1987), pp. 1866-1872.	
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Examiner Signature	/Mark Staples/	Date Considered	01/03/2008
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/MS/		Kurt Williams, Etch Rates for Micromachining Processing-Part II, 2003 IEEE, Pgs 761-778, Journal of Microelectromechanical Systems, Vol. 12, No. 6, December 2003.	
/MS/		WINTERS et al., "The Etching of Silicon with XeF ₂ Vapor", Appl. Phys. Letter, Vol. 34(1) (January 1, 1979), pp. 70-73.	
/MS/		XACTIX, Inc., Marketing Brochure (June 27, 1999).	
/MS/		"Xenon Difluoride Isotropic Etch System: Seeing is Believing", Surface Technology Systems Ltd. brochure, Newport, UK (date unknown).	
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/MS/		BASSOM et al., "Modeling and Optimizing XeF ₂ -enhanced FIB Milling of Silicon", 25th International Symposium for Testing and Failure Analysis, Santa Clara, CA (Nov. 14 -18, 1999), pp. 255-261 (abstract only).	
/MS/		KOHLER et al., "Fabrication of Microlenses by Plasmaless Isotropic Etching Combined with Plastic Moulding", Sens. Actuators A, Phys. (Switzerland), Vol. A53, No. 1-3 (May 1996), pp. 361-363 (abstract only).	
/MS/		CHAN et al., "Gas Phase Pulse Etching of Silicon for MEMS with Xenon Difluoride", Engineering Solutions for the Next Millenium: 1999 IEEE Canadian Conference on Electrical and Computer Engineering, Edmonton, Alberta, Vol. 3 (May 9 - 12, 1999), pp. 1637-1642 (abstract only).	
/MS/		CHANG et al., "Gas-Phase Silicon Micromachining with Silicon Difluoride", Proceedings of the SPIE - The International Society for Optical Engineering, Vol. 2641 (1995), pp. 117-128 (abstract only).	

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/MS/		SEBEL et al., "Reaction Layer Dynamics in Ion-Assisted Si/XeF ₂ Etching: Temperature Dependence", J. Vac. Sci. Technol. A, Vac. Surf. Films, Vol. 18, No. 6, (Nov. 2000), pp. 2759-2769 (abstract only).	
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/MS/		WANG et al., "Gas-Phase Silicon Etching with Bromine Trifluoride", International Solid State Sensors and Actuators Conference (Transducers '97), Chicago, IL, Vol. 2 (June 16 - 19, 1997), pp. 1505-1508 (abstract only).	
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				Filing Date	September 19, 2003
				First Named Inventor	Andrei Laikhter
				Group Art Unit	1616
				Examiner Name	Badio, Barbara P.
Sheet	1	of	1	Attorney Docket Number	013670-9004-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Example: Initials JUNE 20 2005 PATENT & TRADEMARK OFFICE	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
/MS/	ENBANK Accession No. AF298116
/MS/	GREENE, T.W. and WUTS, P.G.M., Protective Groups in Organic Synthesis, (1999) 3rd edition John Wiley & Sons, Inc., U.S. (BOOK – NOT PROVIDED)
/MS/	HAUGLAND, R.P. et al., Handbook of Fluorescent Probes and Research Chemicals, (1992) 5 th Edition, Molecular Probes, Inc., Oregon, U.S. (BOOK – NOT PROVIDED)
/MS/	MARSHALL, P.N., "Rules for the visible absorption spectra of halogenated fluorescein dyes," Histochemical Journal (1975) 7(1):299-303
/MS/	MULLIS, K. et al., "Specific enzymatic amplification of DNA in vitro: the polymerase chain reaction," Cold Spring Harbor Symp. Quant. Biol. (1986) 51:263-273
/MS/	ROSE, S.D. et al., "The role of PTF1-P48 in pancreatic acinar gene expression," J. Biol. Chem (2001) 276(47):44018-44026
/MS/	ZIELSKE, A.G., "(Tosyloxy)anthraquinones: Versatile synthons for the preparation of various aminoanthraquinones," J. Org. Chem. (1987) 52:1305-1309

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				Filing Date	September 19, 2003
				First Named Inventor	Andrei Laikhter
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				Examiner Name	Badio, Barbara P.
Sheet	1	of	1	Attorney Docket Number	013670-9004-US00

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/MS/		4,439,356	KHANNA et al.	March 1984
/MS/		5,188,934	MENCHEN et al.	February 1993
/MS/		6,531,591	FENSHOLDT, J.	March 2003
/MS/				
/MS/				

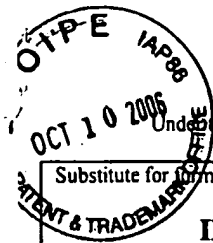
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/MS/	EP	0272007	Applied Biosystems	June 1988		
/MS/	WO	91/05060	Applied Biosystems	April 1991		

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Sheet 1 of 1

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Application Number	10/666,998
Filing Date	September 19, 2003
First named Inventor	Andrei Laikhter
Group Art Unit	1617
Examiner name	Unknown
Attorney Docket Number	013670-9004-US00

U.S. Patent Documents

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/MS/	3,218,309	Elslager et al.	11/16/1965
/MS/	2005/0112673	Laikhter et al.	5/26/2005

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Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/MS/	DT	2546535	Bayer AG	4/28/1977	Abstract Only	Y
/MS/	JP	52-88681	Mitsubishi Chemical Industries	7/25/1977	Abstract Only	Y
/MS/	JP	52-91031	Mitsubishi Chemical Industries	8/1/1977	Abstract Only	Y
/MS/	WO	2004/026804	Integrated DNA Technologies Inc.	4/1/2004		
/MS/	WO	2005/049849	Integrated DNA Technologies Inc.	6/2/2005		

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Sheet	1	of	1	Attorney Docket Number	013670-9004-00
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Complete if Known

Application Number	10/666,998
Filing Date	September 19, 2003
First Named Inventor	Andrei Laikhter
Group Art Unit	1617
Examiner Name	Unknown
Attorney Docket Number	013670-9004-00

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/MS/		HO, M.S. et al., "Azo polymers for reversible optical storage. 7. The effect of the size of the photochromic groups," Macromolecules (1995) 28(18):6124-6127

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Filed 09/14/2007

PTO/SB/08a (05-07)

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STATEMENT BY APPLICANT**
Not for submission under 37 CFR 1.99)

Application Number	10666998
Filing Date	2003-09-19
First Named Inventor	Andrei Laikhter
Art Unit	1637
Examiner Name	Mark Staples
Attorney Docket Number	013670-9004 US00

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Application Number	10666998
Filing Date	2003-09-19
First Named Inventor	Andrei Laikhter
Art Unit	1637
Examiner Name	Mark Staples
Attorney Docket Number	013670-9004 US00

/MS/	1	MAY, J.P. et al., "Synthesis of a novel dark quencher for use with long wavelength dyes in oligonucleotide probes," Innovation and Perspectives in Solid Phase Synthesis and Combinatorial Libraries: Peptides, Proteins and Nucleic Acids Small Molecule Organic Chemical Diversity, Collected Papers, 7th International Symposium, Southampton, United Kingdom, September 18-22, 2002, pp. 231-233	<input type="checkbox"/>
/MS/	2	MAY, J.P. et al., "A new dark quencher for use in genetic analysis," Chem. Commun. (2003) 970-971	<input type="checkbox"/>
/MS/	3	MIYASHITA, T. et al., "Novel dinucleoside phosphotriester unit conjugated with an intercalative moiety in a stereospecific manner enhances thermal stability of an alternate-stranded triple helix," Tetrahedron Letters (2003) 44:7399-7402	<input type="checkbox"/>

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